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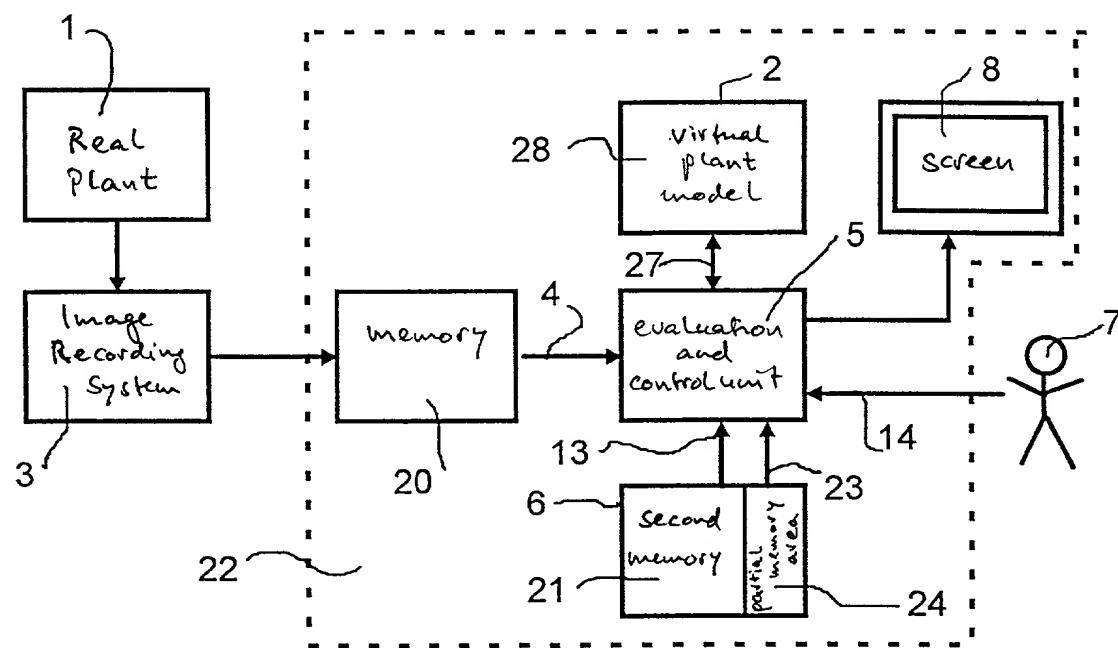


Fig. 1

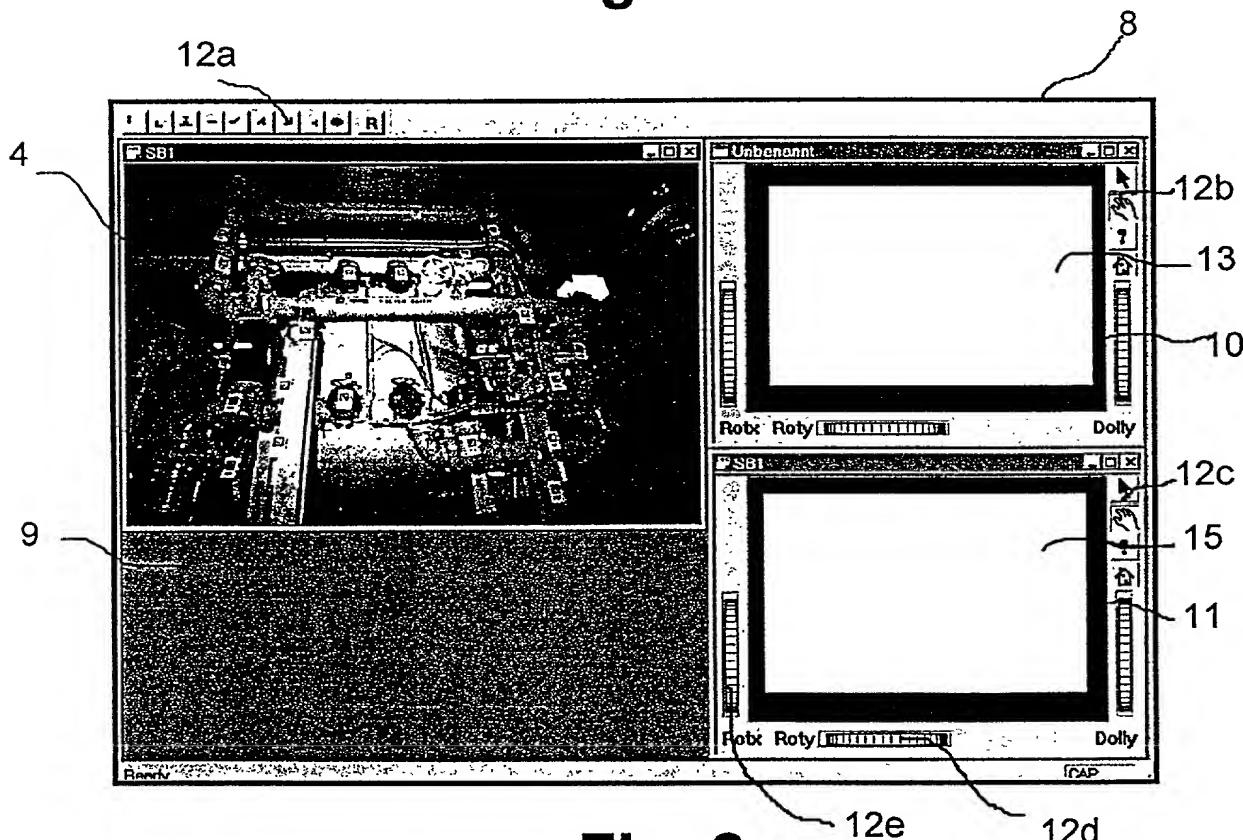
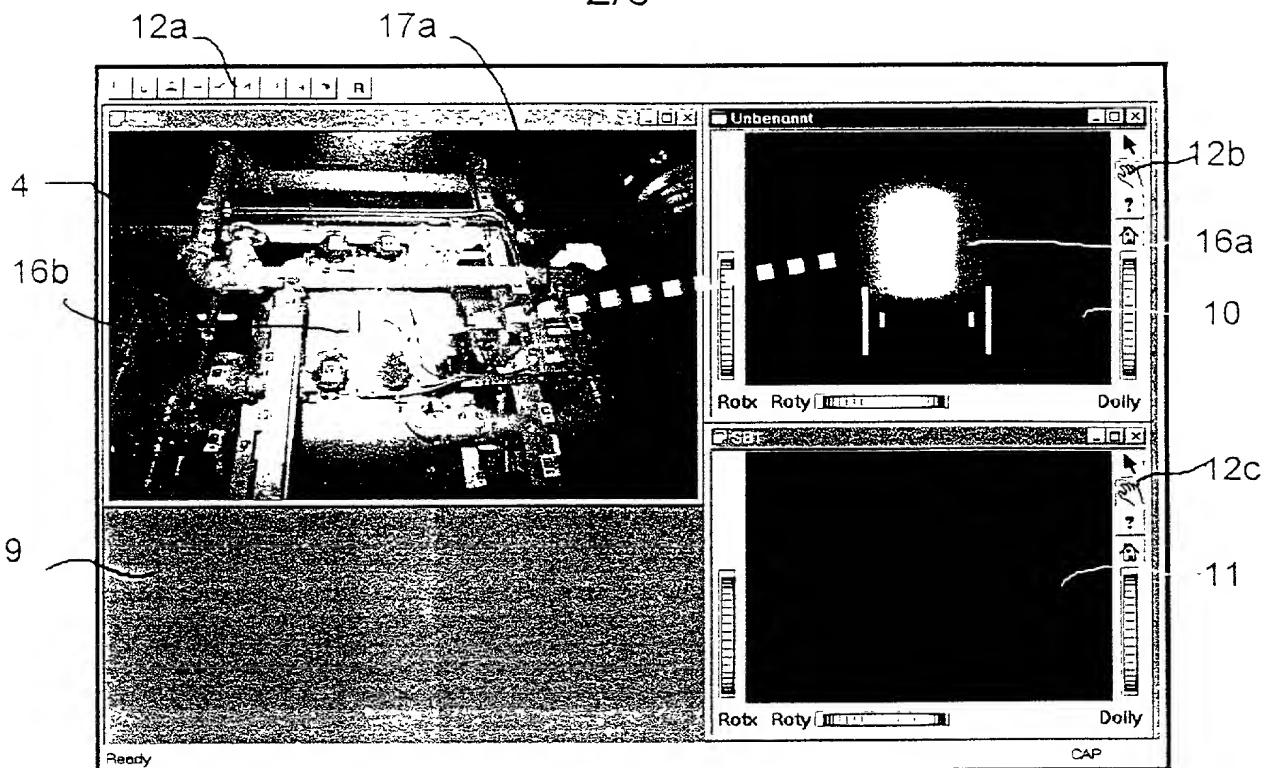
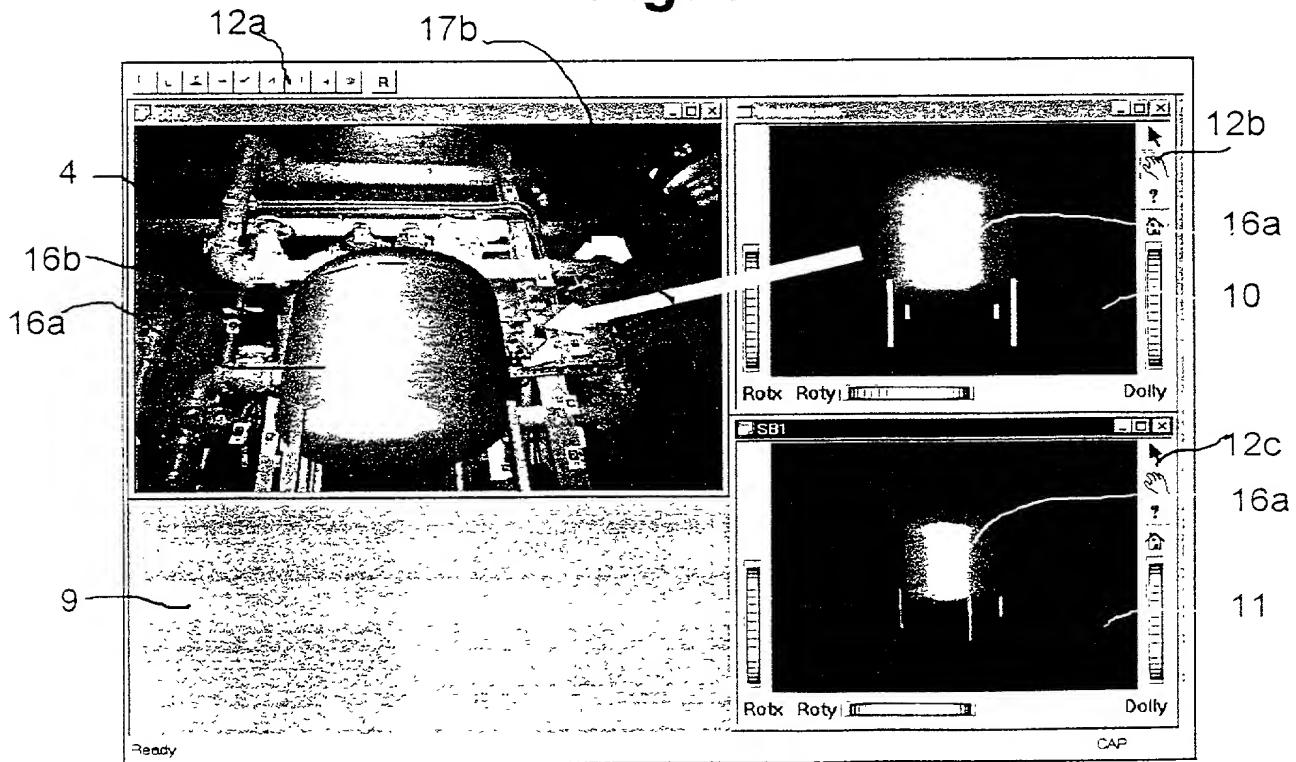
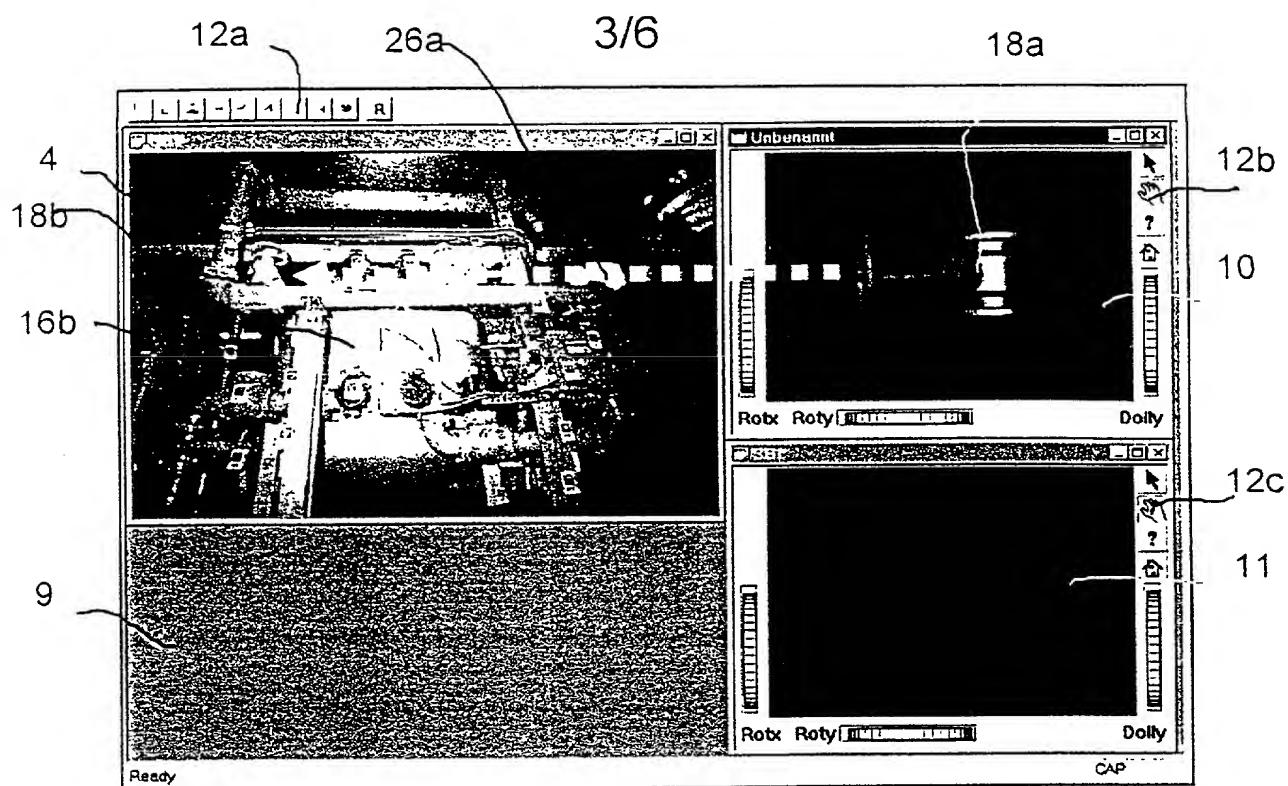
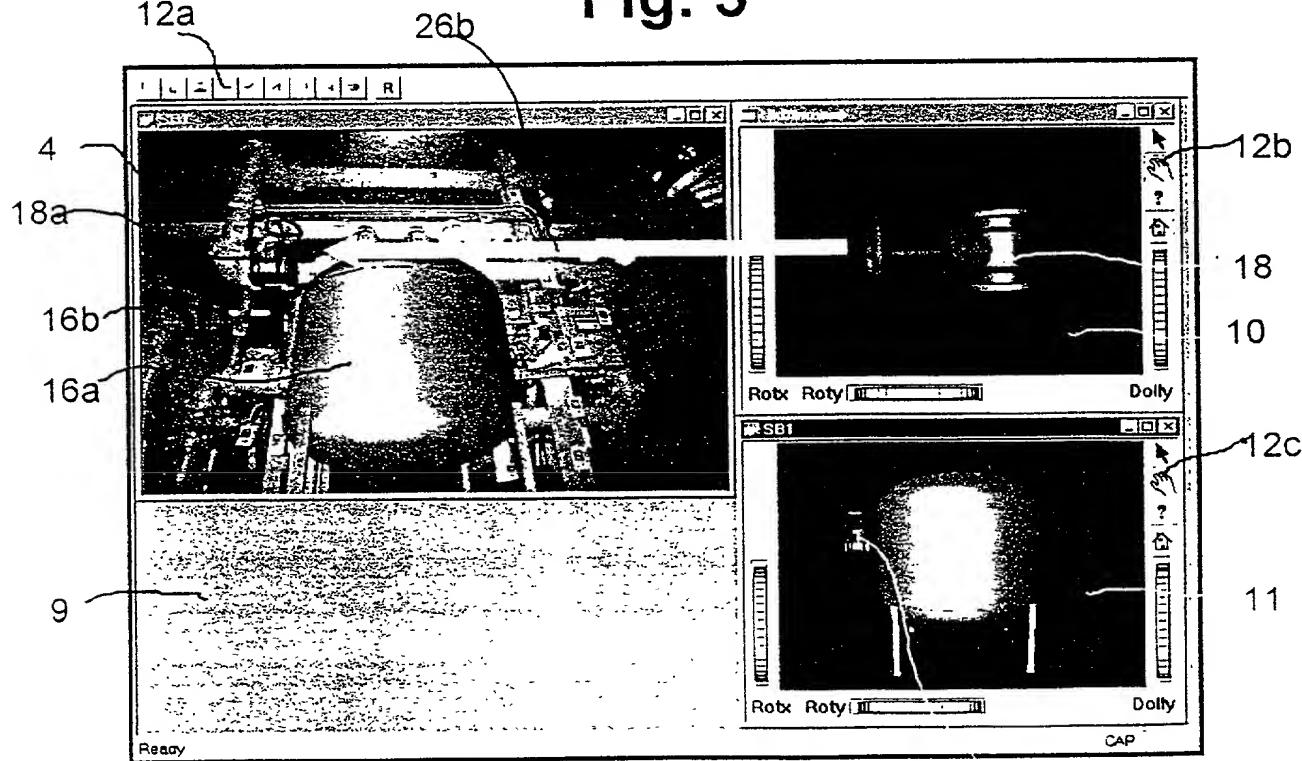


Fig. 2

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**Fig. 3****Fig. 4**

**Fig. 5****Fig. 6**

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Fig. 7

19a

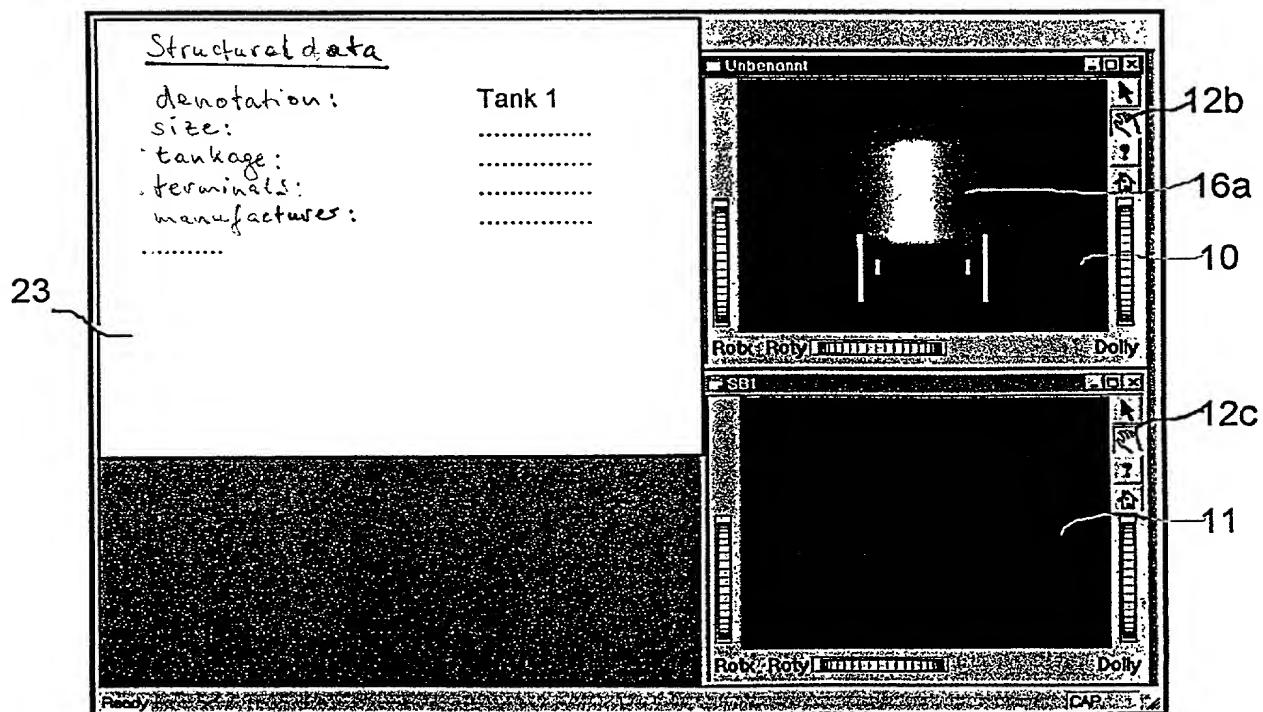


Fig. 8

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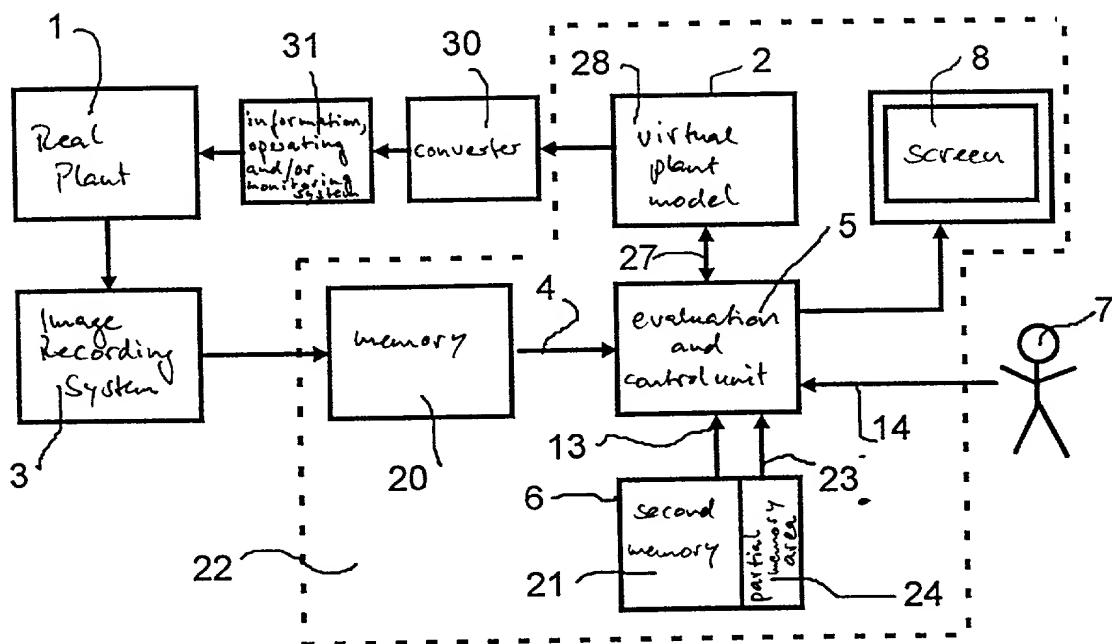


Fig. 9

Fig. 10

Virtual plant modeling

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